

I Claim:

Sub A. 1. A catastrophic event survival structure comprising:

a monolithic outer shell formed from a single pour of concrete and substantially enclosing a confined inner space therein,

said monolithic outer shell configured as a generally spherical polyhedron structured to withstand substantial wind and projectile impact forces thereupon, and

at least one door formed in said monolithic outer shell and configured to provide resealable access to said confined inner space.

2. A catastrophic event survival structure as recited in claim 1, further comprising handle means to facilitate movement of said catastrophic event survival structure.

3. A catastrophic event survival structure as recited in claim 1, wherein said handle means comprises a plurality of spaced rods embedded in said monolithic outer shell.

4. A catastrophic event survival structure as recited in claim 1, wherein said monolithic outer shell is reinforced with steel rebar.

5. A catastrophic event survival structure as recited in claim 1, further including elevating means configured to maintain said monolithic outer shell a predetermined distance above a ground surface.

6. A catastrophic event survival structure as recited in claim 5, wherein said elevating means comprise a plurality of legs supporting said monolithic outer shell.

7. A catastrophic event survival structure as recited in claim 1, wherein said monolithic outer shell comprises a generally spherical polyhedron having a relatively horizontal top panel, a relatively horizontal bottom panel, a plurality of generally vertical side walls between said top and bottom panels, a plurality of generally inclined upper panels connecting said top panel to said side walls, and a plurality of generally inclined lower panels connecting said bottom panel to said side walls.

8. A catastrophic event survival structure as recited in claim 7, further comprising ventilation means to provide adequate ventilation within said confined inner space.

9. A catastrophic event survival structure as recited in claim 8, wherein said ventilation means comprise at least one air conduit extending through said monolithic outer shell.

10. A catastrophic event survival structure as recited in claim 9, further comprising electrical power means to provide a ready supply of electrical power to said confined inner space.

11. A catastrophic event survival structure as recited in claim 10, wherein said electrical power means comprises a battery.

12. A catastrophic event survival structure as recited in claim 11, wherein said electrical power means comprise a wire and outlet system configured to receive power from an external source.

13. A catastrophic event survival structure comprising:

a monolithic outer shell formed from a single pour of concrete and substantially enclosing a confined inner space therein,

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said monolithic outer shell comprising a generally spherical polyhedron having a relatively horizontal top panel, a relatively horizontal bottom panel, a plurality of generally vertical side walls between said top and bottom panels, a plurality of generally inclined upper panels between said top panel and said side walls, and a plurality of generally inclined lower panels between said bottom panel and said side walls, and

at least one door formed in said monolithic outer shell configured to provide resealable access to said confined inner space.

14. A catastrophic event survival structure as recited in claim 13, wherein said monolithic outer shell is formed without any joints therein.

15. A catastrophic event survival structure as recited in claim 13, wherein said monolithic outer shell is

formed with substantially gradual angles between each planer surface therein.

16. A catastrophic event survival structure as recited in claim 15, wherein an angle between each planer surface of said monolithic outer shell is greater than 90 degrees.

cont. 17. A method for manufacturing a catastrophic event survival structure having a monolithic outer shell formed from a single pour of concrete, the method comprising the steps of:

constructing a permanent inner mold surface substantially enclosing a confined area therein;

preparing a removable outer mold surface comprising a separable top portion, a spacing element, and a separable bottom portion;

installing a plurality of rods through said spacing element;

securing said top portion, said spacing element, and said bottom portion of said removable outer mold about said permanent inner mold surface so as to leave a concrete-receiving void between said permanent inner mold surface and said removable outer mold;

centering said permanent inner mold surface within
said removable outer mold by adjusting a depth of insertion
of said plurality of rods through said spacing element;

pouring concrete into said concrete-receiving void so
as to substantially fill said concrete-receiving void;

allowing said concrete to cure; and

removing said removable outer mold.

cont. 11
18. A method for manufacturing a catastrophic event
survival structure as recited in claim 17, further
comprising the step of installing elevating means.

19. A method for manufacturing a catastrophic event
survival structure as recited in claim 17, further
comprising the step of installing ventilating means.

20. A method for manufacturing a catastrophic event
survival structure as recited in claim 17, further
comprising the step of installing electrical power means.